

THE ELECTRICITY STORAGE **NETWORK**

The Electricity Storage Network Annual Symposium

Osborne Clarke, London | 4 June 2019

9:00 Registration, exhibition and networking

9:30 Chair's introduction

Merlin Hyman, chief executive officer, Regen

Storage sector progress report

Ray Arrell, senior project manager, Regen



9:40 Leaders forum: the value of storage in smart, decarbonised energy system

To kick off the conference, we will be debating where the value for storage will be in the energy system. Our leaders include key decision makers in the future design and operation of the system and a prominent entrepreneur focused on optimising storage business models. Questions up for discussion will include:

- ▶ What challenges does the energy transformation create for system operators responsible for balancing and managing the grid and what value streams will this create?
- ▶ What will the key revenue streams be to underpin storage business models in a changing system?
- ▶ How can storage and distributed generation work together to underpin a smart, decarbonised energy system?

Chair: Merlin Hyman, chief executive officer, Regen

Participants:

- ▶ **Cathy McClay**, head of future markets, National Grid Electricity System Operator
- ▶ **Ben Irons**, co-founder, Habitat Energy
- ▶ **Javier Cavada**, chief executive office, Highview Power
- ▶ **Mike Ryan**, asset management director, Anesco



10:25 How can we capitalise on smart, digital technologies for storage?

Smart technologies such as machine learning, distributed ledgers and the Internet of Things are often pegged as the answer to all ills in the energy sector, particularly for storage. The prospects are certainly exciting – new market models or enhanced prediction facilitating time of use. But despite high levels of ambition in the industry and from government, the benefits have not yet materialised. What technologies are achievable in the near term? What are the barriers to implementing them for storage?

Participants:

- ▶ **Jon Ferris**, strategy director, Electron
- ▶ **David Sykes**, head of data science, Octopus Energy
- ▶ **Laura Sandys**, chief executive officer, Challenging Ideas and Energy Data Taskforce
- ▶ **Maria Carmona**, energy market analyst, Arenko



11:15 Break

11:45 The next chapter of flexibility provision

The flexibility provided by storage is central to enabling decarbonisation of the energy system, but how it is incentivised and remunerated has varied dramatically over the last few years. How should markets be shaping flexibility provision in future? What will price volatility do for the arbitrage model? How will we get longer duration storage onto the system?

After a 'state of the sector' update on past and current flexibility markets from Ray Arrell, our industry panel of share their experiences and map out a future for flexibility and storage in the UK.

Speaker and chair: Ray Arrell, senior project manager, Regen

Participants:

- ▶ Steve Atkins, DSO transition manager, Scottish and Southern Electricity Networks
- ▶ Senior representative, Cornwall Insight
- ▶ Andy Scott, consultant, Swanbarton



12:30 Interview with Frances Warburton, director, energy system transition, Ofgem

13:00 Lunch

14:30 How can policy and regulation enable the transformation of our energy system and unlock the potential of storage?

Storage is put forward as the vital cog to solve the myriad challenges facing the energy network, but its deployment and its treatment in regulation does not yet match this ambition. In the run up to a new government Energy White Paper is radical change needed?

Two speakers will present a disruptive view of policy and regulation in the sector and our panellists will assess whether we're up the challenge.

Chair: Alan John, partner, Osborne Clarke

Speaker: Charlie Blair, managing director, Gravitricity

Participants:

- ▶ Will Broad, interim deputy director, Electricity Systems at Department of Business, Energy and Industrial Strategy
- ▶ Madeleine Greenhalgh, policy lead, The Electricity Storage Network
- ▶ Catalina Rozo, regulatory analyst, Zenobe
- ▶ Mike Hemsley, senior power analyst, Committee on Climate Change



15:30 Storage: the long term vision

Storage, like many other new technologies in the energy industry, has dealt with a rapidly changing environment since its entrance into the sector. What does a more stable, long-term future look like for storage? What does the government need to do to enable that?

As we think about the long term financial and environmental future of the energy system, what are the necessary and likely projections for storage deployment? What future market opportunities are there? Can we take heed from international examples?

Chair: Merlin Hyman, chief executive officer, Regen

Participants:

- ▶ Toddington Harper, chief executive officer, Gridserve
- ▶ Marek Kubik, market director, Fluence
- ▶ Rubina Singh, global channel propositions, Centrica



16:15 Close